

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	10/799450	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:18
S3	53	LOVOI-PAUL-A LOVOI-P-A	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/14 08:26
S4	91	extractor adj cup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/14 08:38
S5	1	("6319188").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 08:39
S6	2	10/397498	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:41
S7	28572	electron near gun	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:42
S8	713	S7 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:42
S9	4534	(electron near gun).ti.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:42
S10	10	S9 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:45
S11	1950	S9 and "313"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:54
S12	37571	cathode same (electron with focus\$4 or shap\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:55
S13	8075	S12 and "313"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:54
S14	1155	S12 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 08:55
S15	22613	cathode with (electron with focus\$4 or shap\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:01
S16	787	S15 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:02
S17	901	cathode with (electron with focus\$4 or shap\$4) with cup	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:08
S18	122	S17 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:20

## EAST Search History

S19	100	cathode with filament with (electron with focus\$4 or shap\$4) with cup	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:09
S20	79	S19 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:12
S21	18	S19 and "313"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:18
S22	286	(313/238).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:18
S23	340	(313/239).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:18
S24	750	(313/240).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:19
S25	345	(313/242).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:19
S26	718	(313/271).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:19
S27	281	(313/276).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:19
S28	617	(378/119).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:20
S29	476	(378/121).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:21
S31	206	(378/136).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:21
S32	252	(378/137).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:21
S33	389	(378/138).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/14 09:21
S34	4028	S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S31 or S32 or S33	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:24
S35	0	S34 and S4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:24
S36.	443585	(cathode or emitter or electron near2 (source or means))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:27
S38	150207	(filament)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:28
S39	1192	pre?cursor or presursor	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:30

## EAST Search History

S40	207412	cup	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:29
S41	240467	shield	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:29
S42	0	S36 same S38 same S39	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:29
S43	212808	pre?cursor or precursor	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:32
S44	53	S36 same S38 same S43	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:32
S45	40678	(pre?cursor or precursor) same metal\$6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:34
S46	20	S36 same S38 same S45	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:35
S47	7158	(pre?cursor or precursor) same (coat\$4 or precoat\$4 or pre?coat\$4) same metal\$6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:35
S48	1	S36 same S38 same S47	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:36
S49	0	S36 and S38 and S40 and S41 and S47	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:37
S50	100	S38 same S47	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:38
S51	5	S50 and ("378"/\$4 or "313"/\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:48
S52	82	(S22 or S23 or S24 or S25 or S26 or S27) and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:52
S53	1162	filament same evaporat\$4 same deposit\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:53
S54	9	S53 and "378"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 09:56
S55	57	miniature same (x?ray near tube)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 10:09
S56	136	miniature same (x?ray near (source or emitter or device))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/14 11:53
S57	91	extractor adj cup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:55

## EAST Search History

S58	1	S57 and "313"/\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:59
S59	2	S57 and "250"/\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:40
S60	0	S57 and "378"/\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:40
S61	2	(extractor adj cup) same cathode same anode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:56
S62	3	(extractor adj cup) and cathode and anode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:57
S63	46	flux near cup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 10:59
S64	4436	cathode with cup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:02
S65	772	S64 and "313"/\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:02
S66	1804	cathode with cup with anode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:03
S67	198	S66 and "313"/\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:03

## EAST Search History

S68	1371	cathode with cup with electron	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:05
S69	430	S68 and "313"/\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:06
S70	251	((cathode or filament) with cup with electron) and x?ray near (source or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:09
S71	150	S70 and ("313"/\$4 or "378"/\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:06
S72	253	((cathode or filament) with cup with electron) and (x?ray near (source or tube or emitter or device))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:11
S73	3	((cathode or filament) with cup with electron) and (x?ray near (source or tube or emitter or device)) and miniatur\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:19
S74	1	("6771737").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/15 11:13
S75	69	((cathode or filament) with cup with (post or pin or lead)) and (x?ray near (source or tube or emitter or device))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:28
S76	594	(filament with (coat\$5 or pre?coat\$5 or precoat\$5)) same (evapor\$6 and deposit\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:30
S77	143	cathode and (filament with (coat\$5 or pre?coat\$5 or precoat\$5)) same (evapor\$6 and deposit\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/15 11:30
S78	652	(378/119).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:31
S79	484	(378/121).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:31

## EAST Search History

S80	217	(378/136).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:31
S81	296	(313/238).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:31
S82	341	(313/239).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:32
S83	750	(313/240).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:32
S84	345	(313/242).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:32
S85	724	(313/271).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:32
S86	281	(313/276).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 10:32
S87	3653	S78 S79 S80 S81 S82 S83 S84 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:32
S88	17428	(cathode filament wire) and (anode target) and (cup extractor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:42
S89	131	S87 and S88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:33
S90	397	(cup near3 extractor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:03
S91	2	S87 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:51
S92	3	(cup near3 extractor) and "313"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:52

## EAST Search History

S93	56	(cup near3 extractor).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:03
S94	217	(378/136).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:24
S95	72024	(cathode filament wire) and (post collar pin column) and (anode target) and (cup extractor container body vessel housing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:44
S96	652	(378/119).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S97	484	(378/121).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S98	296	(313/238).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S99	341	(313/239).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S100	750	(313/240).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S101	345	(313/242).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S102	724	(313/271).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S103	281	(313/276).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 11:43
S104	3653	S96 S97 S94 S98 S99 S100 S101 S102 S103	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:43
S105	192	S95 and S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:44
S106	723	((cathode filament wire) and (post collar pin column) and (anode target) and (cup extractor container body vessel housing)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:44

## EAST Search History

S10 7	19	S106 and S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 11:44
S10 8	217	(378/136).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S10 9	652	(378/119).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 0	484	(378/121).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 1	296	(313/238).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 2	341	(313/239).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 3	750	(313/240).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 4	345	(313/242).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 5	724	(313/271).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 6	281	(313/276).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/31 14:02
S11 7	3653	S109 S110 S108 S111 S112 S113 S114 S115 S116	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 14:02
S11 8	723	((cathode filament wire) and (post collar pin column) and (anode target) and (cup extractor container body vessel housing)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 14:02
S11 9	19	S118 and S117	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 14:03